

## WHAT IS CLAIMED IS:

1           1. For use in a wireless communications system, an  
2 apparatus for supporting dual standards comprising:

3           a sectored antenna system for a coverage area;

4 and

5           an omni antenna system for the coverage area,  
6 wherein the sectored antenna system is employed for  
7 wireless communications utilizing a first standard within  
8 the coverage area and the omni antenna system is employed  
9 for wireless communications utilizing a second standard  
10 within the coverage area.

1           2. The apparatus according to claim 1, wherein one  
2 of the first and second standards is compatible with the  
3 other of the first and second standards.

1           3. The apparatus according to claim 2, wherein, upon  
2 failure of wireless communications utilizing the other of  
3 the first and second standards within the coverage area,  
4 wireless communications utilizing the other of the first  
5 and second standards within the coverage area is resumed  
6 with the antenna system employed for the compatible one of  
7 the first and second standards.

1           4. The apparatus according to claim 1, wherein the  
2 first standard is IS-2000 and the second standard is one of  
3 1xEV-D0 and 1xEV-DV.

1           5. The apparatus according to claim 1, wherein the  
2 first standard is one of 1xEV-D0 and 1xEV-DV and the second  
3 standard is IS-2000.

1           6. For use in a wireless communications system, an  
2 apparatus for supporting dual standards comprising:

3           a first coverage area employing a sectored  
4 antenna system for wireless communications utilizing a  
5 first standard within the first coverage area and a  
6 sectored antenna system for wireless communications  
7 utilizing a second standard within the first coverage area;  
8 and

9           a second coverage area employing a sectored  
10 antenna system for wireless communications utilizing the  
11 first standard within the second coverage area and an omni  
12 antenna system for wireless communications utilizing the  
13 second standard within the second coverage area.

1           7. The apparatus according to claim 6, wherein one  
2 of the first and second standards is compatible with the  
3 other of the first and second standards.

1           8. The apparatus according to claim 7, wherein, upon  
2 failure of wireless communications utilizing the other of  
3 the first and second standards within one of the first and  
4 second coverage areas, wireless communications utilizing  
5 the other of the first and second standards within the one  
6 of the first and second coverage areas is resumed with the  
7 antenna system employed for the compatible one of the first  
8 and second standards.

1           9. The apparatus according to claim 6, wherein the  
2 first standard is IS-2000 and the second standard is one of  
3 1xEV-D0 and 1xEV-DV.

1           10. The apparatus according to claim 6, wherein the  
2 first standard is one of 1xEV-D0 and 1xEV-DV and the second  
3 standard is IS-2000.

1           11. For use in a wireless communications system, an  
2 apparatus for supporting dual standards comprising:

3           a first antenna system for wireless  
4 communications utilizing a first standard within a coverage  
5 area; and

6           a second antenna system for wireless  
7 communications utilizing a second standard within the  
8 coverage area,

9           wherein one of the first and second standards is  
10 compatible with the other of the first and second standards  
11 and, upon failure of wireless communications utilizing the  
12 other of the first and second standards within the coverage  
13 area, wireless communications utilizing the other of the  
14 first and second standards within the coverage area is  
15 resumed with the antenna system employed for the compatible  
16 one of the first and second standards.

1           12. The apparatus according to claim 11, wherein the  
2 first antenna system is a sectorized system and the second  
3 antenna system is an omni system.

1           13. The apparatus according to claim 11, wherein the  
2 first antenna system is an omni system and the second  
3 antenna system is a sectorized system.

1           14. The apparatus according to claim 11, wherein the  
2 first standard is IS-2000 and the second standard is one of  
3 1xEV-D0 and 1xEV-DV.

1           15. The apparatus according to claim 11, wherein the  
2 first standard is one of 1xEV-D0 and 1xEV-DV and the second  
3 standard is IS-2000.

1           16. For use in a wireless communications system, a  
2 method of supporting dual standards comprising:

3               employing a sectored antenna system for wireless  
4 communications utilizing a first standard within a coverage  
5 area; and

6               employing an omni antenna system for the coverage  
7 area, wherein the sectored antenna system is employed for  
8 wireless communications utilizing a second standard within  
9 the coverage area.

1           17. The method according to claim 16, wherein one of  
2 the first and second standards is compatible with the other  
3 of the first and second standards.

4           18. The method according to claim 17, further  
5 comprising:

6               upon failure of wireless communications utilizing  
7 the other of the first and second standards within the  
8 coverage area, resuming wireless communications utilizing  
9 the other of the first and second standards within the  
10 coverage area with the antenna system employed for the  
11 compatible one of the first and second standards.





1           21. For use in a wireless communications system, a  
2 method of supporting dual standards comprising:

3           employing a sectored antenna system for wireless  
4 communications utilizing a first standard within a first  
5 coverage area and a sectored antenna system for wireless  
6 communications utilizing a second standard within the first  
7 coverage area; and

8           employing a sectored antenna system for wireless  
9 communications utilizing the first standard within a second  
10 coverage area and an omni antenna system for wireless  
11 communications utilizing the second standard within the  
12 second coverage area.

22. The method according to claim 21, wherein one of  
the first and second standards is compatible with the other  
of the first and second standards.

1           23. The apparatus according to claim 22, further  
2 comprising:

3           upon failure of wireless communications utilizing  
4 the other of the first and second standards within one of  
5 the first and second coverage areas, resuming wireless  
6 communications utilizing the other of the first and second  
7 standards within the one of the first and second coverage  
8 areas with the antenna system employed for the compatible  
9 one of the first and second standards.

1           24. The method according to claim 21, wherein the  
2 first standard is IS-2000 and the second standard is one of  
3 1xEV-D0 and 1xEV-DV.

4           25. The method according to claim 21, wherein the  
5 first standard is one of 1xEV-D0 and 1xEV-DV and the second  
6 standard is IS-2000.

1           26. For use in a wireless communications system, a  
2 method of supporting dual standards comprising:

3                 employing a first antenna system for wireless  
4 communications utilizing a first standard within a coverage  
5 area;

6                 employing a second antenna system for wireless  
7 communications utilizing a second standard within the  
8 coverage area, wherein one of the first and second  
9 standards is compatible with the other of the first and  
10 second standards; and

11                upon failure of wireless communications utilizing  
12 the other of the first and second standards within the  
13 coverage area, resuming wireless communications utilizing  
14 the other of the first and second standards within the  
15 coverage area with the antenna system employed for the  
16 compatible one of the first and second standards.

1           27. The method according to claim 26, wherein the  
2 first antenna system is a sectorized system and the second  
3 antenna system is an omni system.

1           28. The method according to claim 26, wherein the  
2 first antenna system is an omni system and the second  
3 antenna system is a sectorized system.

1           29. The method according to claim 26, wherein the  
2 first standard is IS-2000 and the second standard is one of  
3 1xEV-D0 and 1xEV-DV.

1           30. The method according to claim 26, wherein the  
2 first standard is one of 1xEV-D0 and 1xEV-DV and the second  
3 standard is IS-2000.